Uniden®

BW2101

**3.5" LCD Portable Wireless
Baby Monitoring System**

For more exciting new products please visit our website:
Australia: www.uniden.com.au
New Zealand: www.uniden.co.nz

OWNER'S MANUAL

Important Safety Precautions

This manual contains important information about this product's operation. If you are installing this product for others, leave this manual or a copy with the end user.

When using your equipment, always follow basic safety precautions to reduce the risk of fire, electric shock and injury to persons, including the following:

- This equipment is NOT waterproof. DO NOT expose it to rain or moisture.
- DO NOT immerse any part of the product in water. Do not use this product near water, e.g., near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- To avoid any risk of electric shock from lightning, avoid handling any electronic devices (except battery powered ones) during an electrical storm.
- Use only the power cord and/or batteries indicated in this manual. Never dispose of any batteries in a fire: they may explode. Check with local codes for possible special disposal instructions.
- Never tug or pull on any power cord: be sure to leave some slack in the cord when placing your equipment, and always use the plug to unplug the cord from the wall outlet.
- Never leave power cords where they can become crushed, cut, or frayed; when running power cords, avoid letting them rub against any sharp edges or lie across any high traffic areas where people might trip over them.
- Do not use the device if the adaptor cords or plugs have been damaged, the unit has been exposed to liquids, or the unit has been dropped or is damaged.

Important Safety Precautions (cont'd)

Warnings to Parents and Other Users

Failure to follow these warnings and the assembly instructions could result in serious injury or death. This product is not designed or intended for use as a medical monitor, nor should this product be used as a substitution for medial supervision. Always be sure that both the transmitter (camera) and receiver (monitor) are working properly and are within range of each other.

• STRANGULATION HAZARD. Keep the adaptor cords out of the reach of children.
• WARNING: KEEP OUT OF THE REACH OF CHILDREN.
• Allow for proper ventilation when units are in use. Do not cover the camera or monitor with any object such as a blanket. Do not place it in a drawer or in any location which would muffle the sound or interfere with the normal flow of air.

For best results:

To avoid damage to your equipment, follow these simple precautions:

• Do not drop, puncture or disassemble any part of the equipment. There are no user-serviceable parts inside.
• Do not expose the equipment to high temperatures, and avoid leaving the equipment in direct sunlight for more than a few minutes. Heat can damage the case or electrical parts.
• Do not place heavy items on top of the equipment or expose the equipment to heavy pressure.
• Remove the power adaptor during long periods between usages.
  Clean only with a dry cloth.

Failure to follow the instructions in this operating manual will void the warranty. Uniden assumes no liability for damages to property or injury to persons caused by improper handling or failure to comply with these safety instructions.

Contents

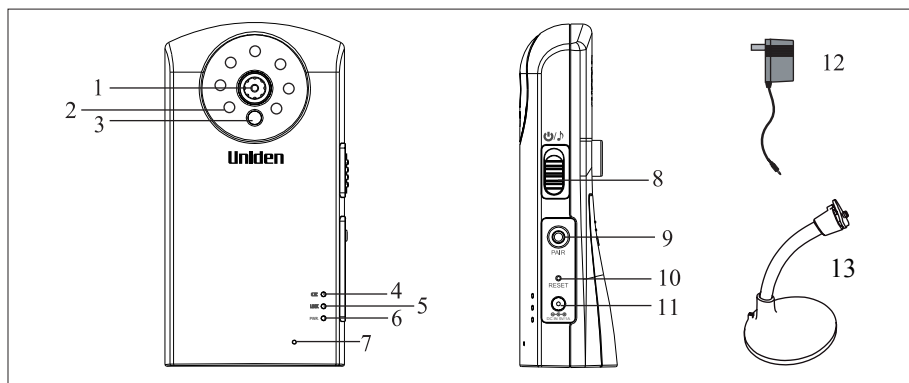# What's in the Box?

1 x Digital Wireless Camera
1 x 3.5" LCD Digital Wireless Monitor
1 x AC Adaptor for Camera
1 x AC Adaptor for Monitor
1 x Goose Neck Camera Stand with mount screws
1 x Owner's Manual

*NOTE! If any items are missing or damaged, contact your place of purchase immediately. Never use damaged products!*

Parts of the BW2101 Baby Monitoring System

Camera

1. Lens
2. IR (Infra Red) LEDs
3. EDS (sensor)
4. Battery Indicator
5. Link Indicator
6. Power Indicator
7. Microphone

8. Power / Lullaby play switch
9. Pairing Key
10. Reset
11. DC IN Jack
12. Power Adaptor
13. Goose Neck Mount Stand

LCD Monitor (Receiver)
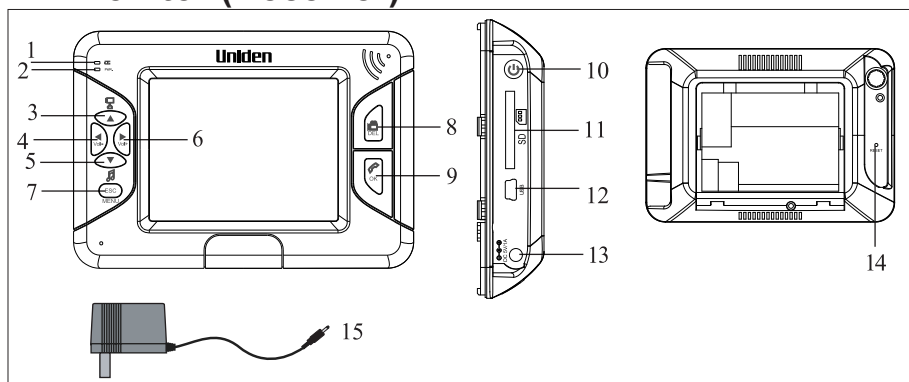
1. Battery Indicator
2. Power Indicator
3. Cursor up / Channel switch
4. Cursor left / Volume down
5. Cursor down / Lullaby play button
6. Cursor right / Volume up
7. Enter / Exit Menu button
8. Record / Delete

9. PTT (Push to Talk) / OK Confirm
10. Power button
11. SD card slot
12. USB port
13. DC IN jack
14. Reset
15. Power adaptor

Getting Started

Step 1. Connection & Installation

Camera Connection
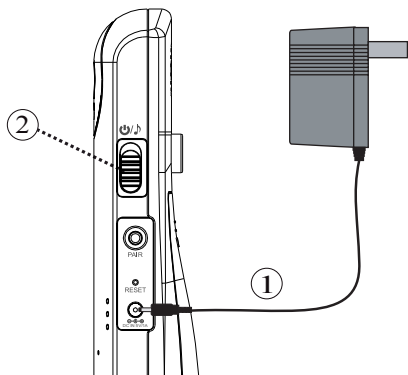
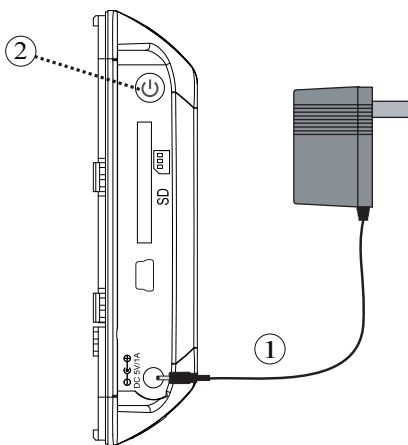1. Connect the power cable to the camera's DC IN jack and then plug the power adaptor to a 240VAC wall outlet.
2. Slide the power switch down once to turn ON the camera.

NOTE! The built-in Lithium battery charges automatically when the power adaptor is connected. Charge the battery to full capacity before using the monitor in portable mode. The battery is at full capacity when the green (battery indicator) turns off.

NOTE! Only use the 5V/1A power adaptor provided in the package.

LCD Monitor Connection

1. Connect the power cable to the monitor's DC IN jack and then plug the power adaptor to a 240VAC wall outlet.
2. Press the power button to turn ON the monitor.

NOTE! The built-in Lithium battery charges automatically when the power adaptor is connected. Charge the battery to full capacity before using the monitor in portable mode.

*NOTE! In portable mode, charge the battery when the battery indicator lights up red.*

NOTE! Only use the 5V/1A power adaptor provided in the package.

Getting Started (cont'd)

## Installing the Camera on the Goose Neck Mount Stand

Use the goose neck mount stand to install the camera at an appropriate angle in a semi-permanent (desktop mount option) or permanent (wall mount option) location.

NOTE! Ensure the install location is within range of a 240VAC wall outlet.
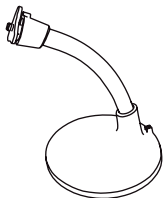
Desktop mount option
1. Select the position for the camera and secure the camera stand.
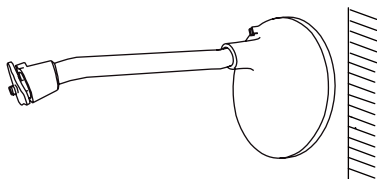
Wall mount option
1. Select the position for the mount stand and mark out the mount holes. The two wall screws should be spaced 40mm apart. Screws and anchors are supplied, but if necessary use an appropriate screw type for the mounting surface.

locknut

cord guides
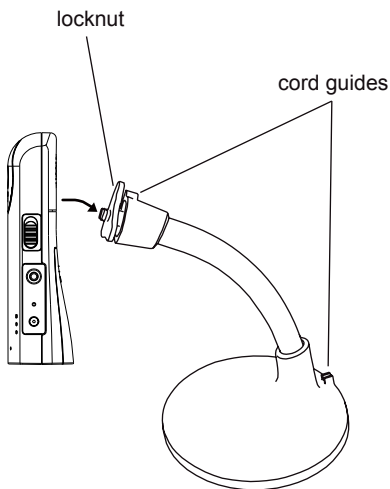
2. Mount the camera onto the bracket, but do not tighten.

3. Adjust the camera to the proper view angle. Make sure the lens is upright relative to your subject. Then tighten the lock nut to secure the camera.

4. Connect the AC adaptor and route the cord along the guides in the stand.

5. At the LCD monitor adjust the antenna to an upright position.

Step 2: Basic Operation

I. Get to Know the Camera
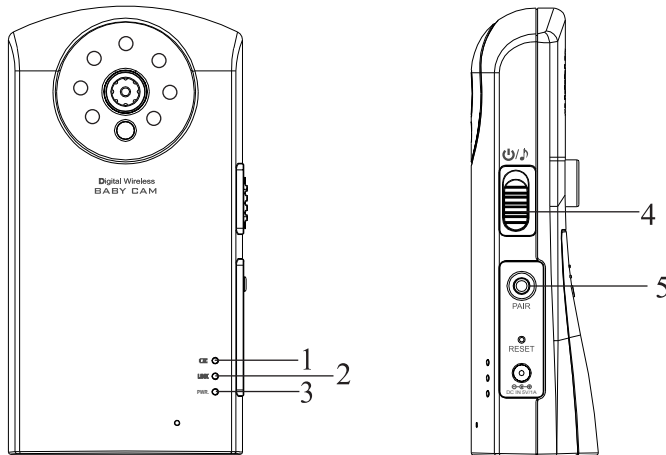
(1) Battery Indicator

Green LED: Battery Charging; charge battery until Green LED turns off.

Red LED: Battery Low (portable mode); Camera will turn off within 3 minutes. Connect the power adaptor for charging or continuous use.

LED off: Battery fully charged.

(2) Link Indicator

Flashing LED: Pairing sequence is in process. See Advanced Operation - Pairing Camera section as a guide.

Blue LED: Camera is picked up by the LCD monitor.

LED OFF: Camera is in stand-by mode.

(3) Power Indicator

LED turns ON when camera is powered ON.

(4) Power / Lullaby Play Switch

Slide down once to power ON the camera. To power OFF, slide down and hold the switch for 2 seconds until the power indicator turns off.

After power on; slide down to turn on the lullaby play of the camera, long slide & hold to turn off.
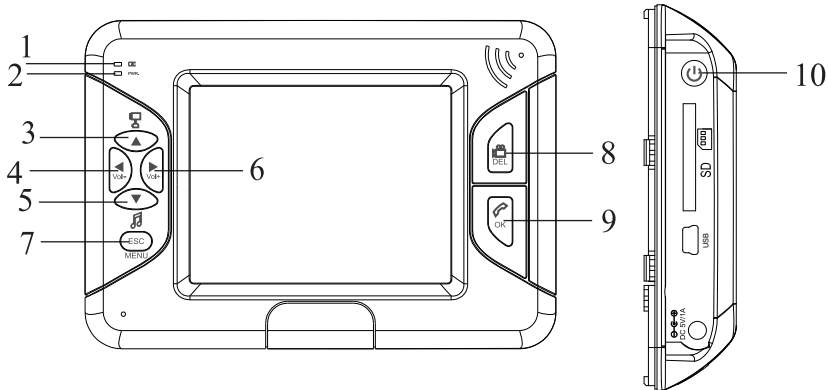
(5) Link Button

Press to pair the camera with the LCD monitor.
See Advanced Operation - Pairing Camera.

Step 2: Basic Operation (cont'd)

II. Get to Know the LCD Monitor

(1) Battery Indicator

    Green LED: Battery charging; charge the battery until the Green
                 LED turns off.

    Red LED: Battery Low (portable mode); Monitor will turn off within
            3 minutes. Connect the power adaptor for charging or
            continuous use.

    LED off: Battery fully charged.

(2) Power Indicator

    LED turns ON when monitor is powered ON.
    NOTE! LED remains ON while LCD display is OFF in Power Save mode.

| *Standard View Mode*	*Menu Mode*	*Quad View Mode*
(3) View next camera (CH1-4)	Cursor Up	Hot key CH1
(4) Volume down	Cursor Left	Hot key CH3
(5) Lullaby Play Switch	Cursor Down	Hot key CH2
(6) Volume up	Cursor Right	Hot key CH4
(7) Enter Menu Mode	ESC (back)	
(8) Manual Record	Delete Record File	
(9) Push to Talk	OK (confirm)	

(10) Power Button

    Press to turn power ON, press and hold for 2 seconds to turn
    power OFF.

Step 3: Advanced Operation

I. Get to Know the Display Icons
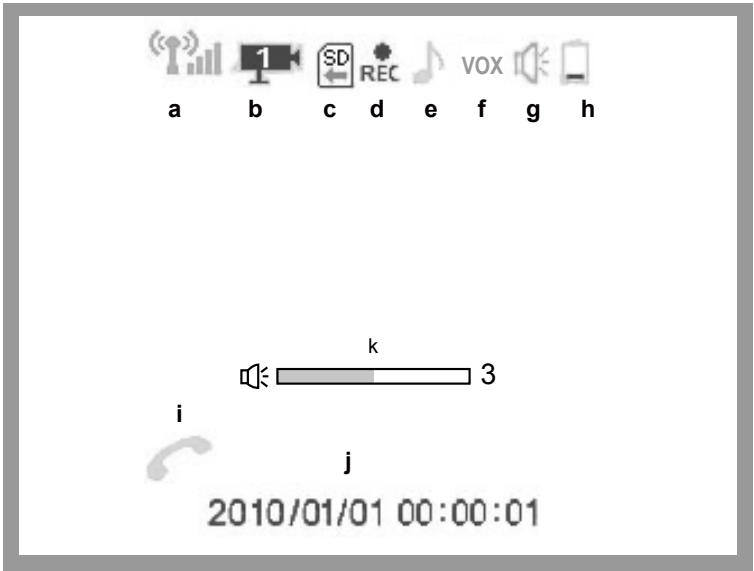
a.		Signal indicator	f.	**VOX**	VOX record ON
b.		Current Channel indicator	g.		VOX alarm ON
c.		SD Card	h.		Battery low indicator (Cam)
		- available			
		- locked (flashing)	i.		Push-to-talk indicator
		- full (flashing)			
		- error (flashing)	j.	2010/01/01 00:00:01	
				System time	
d.		Record indicator (flashing)			
e.		Lullaby play indicator	k.	3	
		Lullaby mute		Volume Bar	

NOTE! Volume bar is green when Camera lullaby volume is adjusted.

NOTE! Volume bar is blue when Monitor volume is adjusted.

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Advanced Operation (cont'd)

II. Get to Know the Main Menu

1. Press **MENU** in standard view mode to display the main menu (the example shows the menu with the Brightness option highlighted).

2. Use ▲ / ▼ / ◀ / ▶ to highlight a menu option.

3. Press **OK** to enter the setting menu.

4. Use ▲ / ▼ to select a setting if necessary.

5. Press **ESC** to go back or exit the menu.

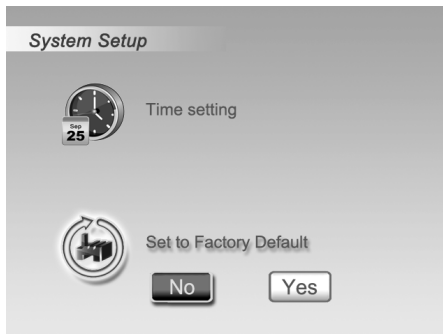- -

System Setup - Time Setting

Set the date and time used for Event List recording.

1. Use ▲ / ▼ / ◀ / ▶ to change the setting.

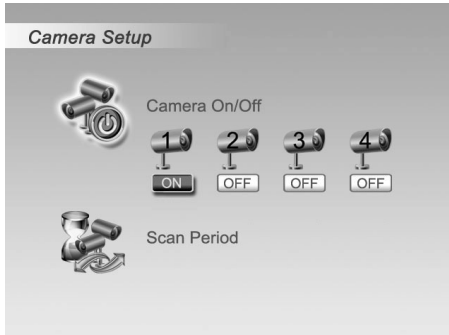2. Press **OK** to save.

System Setup - Set to Factory Default

1. Use ◀ / ▶ to select between No and Yes.

2. Press **OK** to save.

Advanced Operation (cont'd)

II. Get to Know the Main Menu (cont'd)

Camera Setup - Turn Camera(s) On/Off

1. Use ◀ / ▶ to select the camera you want to turn off.

2. Press **OK** to change ON/OFF status.

NOTE! Make sure available cameras are set to ON for SCAN or Quad mode.

Camera Setup - Camera Scan Period
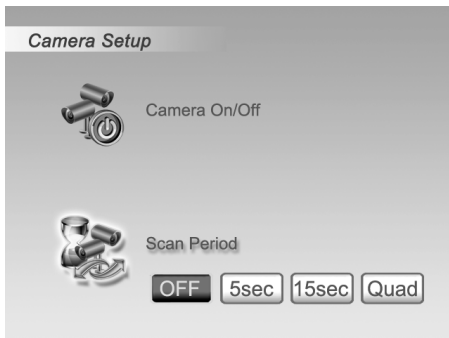
1. Use ◀ / ▶ to change Scan Time interval from OFF / 5 sec / 15 sec / Quad.

2. Press **OK** to confirm the settings.

NOTE! To leave Quad display, simply press directional keys to enter single channel view.

▲ = CAM1; ▼ = CAM2;

◀ = CAM3; ▶ = CAM4;

NOTE! When system enters into power save mode from Quad, press any key to resume monitor view.

Advanced Operation (cont'd)

II. Get to Know the Main Menu (cont'd)

Pairing - Pairing a Camera

1. Use ◄ / ► to select a channel.

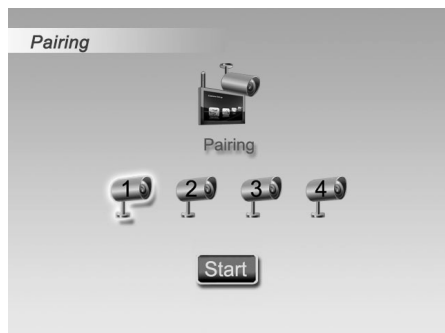2. Press **OK** to start system countdown from 60 seconds.

3. Within the 60 second countdown press PAIR at the camera side. The camera signal will display when pairing is complete.

Power Saving - Power Saving
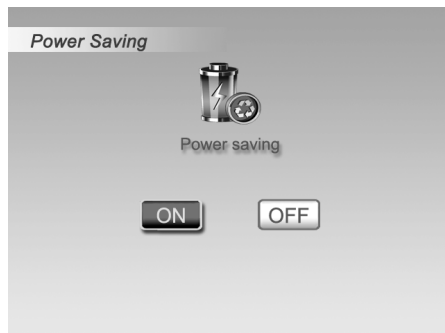
Use ◄ / ► to turn Power Saving mode On/Off.

NOTE! By setting Power Saving mode ON, both receiver and camera will enter standby mode after 2-minute idle time and speaker volume will be mute. Press power key of the receiver to resume monitor and camera .

SD Card Format - SD Card Format
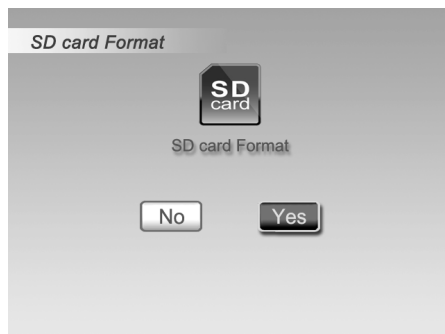
Press ◄ / ► to select No or Yes.

NOTE! For first time use, it is strongly recommended to format the SD card.

Advanced Operation (cont'd)

II. Get to Know the Main Menu (cont'd)

VOX Setting - VOX Sensitivity
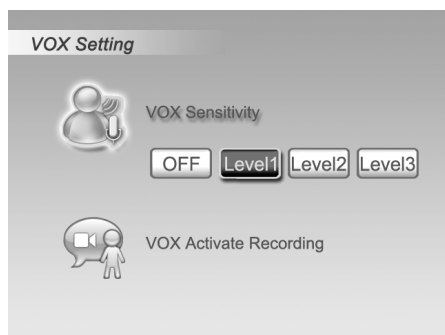
Use ◀ / ▶ to adjust the VOX sensitivity level.

Level 1 - low sensitivity
Level 3 - high sensitivity.

NOTE! At OFF setting the VOX function is disabled.

VOX Setting - Enable VOX Recording
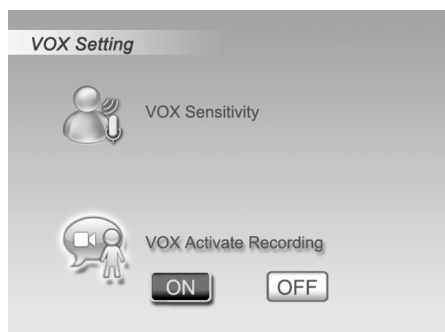
When set to ON, the system will auto record for 30 sec when the camera is triggered by voice.

NOTE! Please set VOX sensitivity to level 1~3 to enable use of this function.

Brightness - Brightness

Press OK to enter camera brightness adjustment bar, press ◀ / ▶ to adjust brightness of current channel.

Advanced Operation (cont'd)

II. Get to Know the Main Menu (cont'd)

Alarm Setup - Alarm Setup
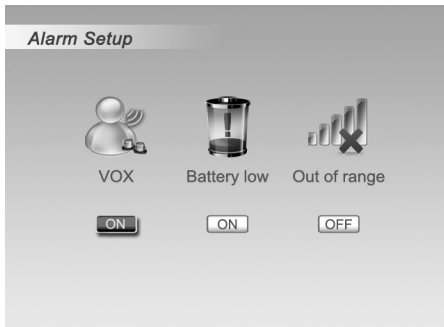
1. Use ◀ / ▶ to move between the items.
2. Press OK to shift to on /off.

VOX alarm ON: The monitor will give an alarm for 15 seconds when the camera is triggered by voice.

Battery low alarm ON: The monitor will give an alarm for 15 seconds when the camera battery is low.

Out of range alarm ON: The monitor will give an alarm for 15 seconds when the monitor and camera(s) are out of wireless transmitting range.

Event List - Event List
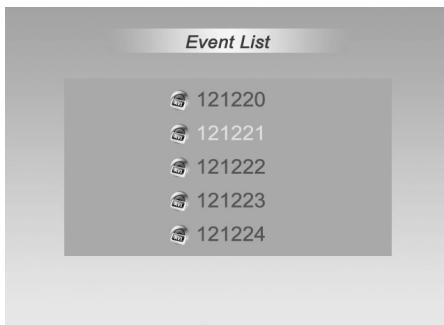
Playback Mode

1. Press OK to enter the Record folder.
2. Press OK again to Play/Pause a file.
3. Press ▶ to fast forward the video clip.
   Press ◀ to rewind the video clip.
   Press ESC to Stop/Exit.

Managing the Event List

1. Use ▲ / ▼ to select the record file you want to delete.
2. Press DEL to enter delete mode.
3. Press ◀ / ▶ to select YES or NO.
4. Press OK to delete.

NOTE! Recording files will be saved every 30 seconds if recording time exceeds 30 seconds.

About Digital Wireless Technology

This section offers some helpful information to overcome most problems you may encounter.

Problem Diagnosis

About 2.4GHz Digital Wireless Signal

This innovative digital wirelss solution integrates advance Frequency Hopping Spread Spectrum (FHSS) technolgy. This technology greatly reduces the interference that comes from other devices using the same radio frequency (2.4GHz), e.g. WIFI, Bluetooth, cordless phone...etc. You now can experience improved wireless surveillance quality without flicker and noisy images. However, weaker signals (lag or still image) may be observed from time to time, depending on the environment where the system is installed. Complies with FCC part 15.247, ETSI (EN) 300 328; audio / video signals transmitted out up to about 500 foot (150 metres) line of sight can be supported. Line of sight installation though, is usually not a common practice. Factors affecting transmission include microwave ovens or other high frequency electromagnetic waves. Reinforced concrete walls, large scale metal products and metal furniture should not be located near the camera or the monitor unit. Do not place near water. Human bodies such as a person passing through may cause unstable signal quality.

How to improve the wireless signal quality

If possible, remove obstacles in betwen the camera or the monitor that might reflect the signal. These could include furniture, cabinets, and walls. If you feel the wireless signal is not good enough, place the moniotr at a new angle or re-adjust its position to make an improvement. Or simply relocate the camera closer to the monitor.

Why Image Compression?

In order to provide a private and interference free wireless service, this digital wireless solution works on a 2Mb narrow hopping band. Different from traditional 2.4GHz analog signal, this digital wireless signal is compressed and presented as Motion JPEG (MJPEG) format. By digitizing and compressing the raw analog data, the bandwidth is used more efficiently and securely. Consequentially, you might observe an indent image line if the signal is viewed on a larger display monitor or plasma TV.

Troubleshooting Guide

If you have any trouble with your phone, check this section first. If you need help, visit the customer support page of our website listed on the front cover.

Problem	Possible Causes	Remedies
System Message shows "NO Signal"	No power supply to camera (Battery low)	Check power adaptor and power cable connection or battery been run out.
	Camera is not paired with receiver	See pairing operation for detail.
	Service out of range	Move the camera closer to the monitor.
	Signal being blocked	If possible, remove major obstacles in between the camera and monitor. Or relocate the camera to a different location.
Low signal or unstable signal	Antenna direct -ional limitation	Adjust camera and monitor position.
	Signal being blocked	If possible, remove major obstacles in between the camera and monitor. Or relocate the camera to a different location.
	Strong radio signal near by	Keep WiFi router away from the camera and/or monitor.
	Strong electro -magnetic inter -ference near by	Keep working motors (hair dryer / heat fan / air conditioner / water pump) or microwave oven away from the camera and/or monitor.
Recording does not work	No SD card	Insert SD card to SD card slot.
	SD card locked	Unlock the SD card.
Black screen & Buttons not functioning	Power save mode on	Press power key to resume receiver image, please refer to Power Saving section on page 13 for details.
Audio feedback	Camera and receiver are too close	The camera has a high sensitivity microphone. Keep the camera at least 10 feet away from the receiver. If the camera must be within 10 feet of the receiver, keep the volume down.
VOX Record & Alarm does not work	VOX Menu set to "OFF"	Set VOX Sensitivity / VOX Alarm / VOX Record to ON.

Product Specification

	Camera Unit	Monitor Unit
Maximum Channels	1	
Communication Range	300 metres in open space	
Resolution	640 x 480 (VGA)	
Operating Temperature	-10°C ~ +40°C	
Operating Voltage	DC 5V / 1A	DC 5V / 1A
Current Consumption	680 mA (max)	680 mA (max)
Night Vision	3m	
Dimension	60mm (W) 116mm (H) 32mm (D)	130mm (W) 90mm (H) 27mm (D)

Storage Media Management

SD Card Capacity	Recording Time
1 GB	130 minutes
2 GB	270 minutes
8 GB	1050 minutes
16 GB	2100 minutes

Warranty

UNIDEN BW2101

Important:
Satisfactory evidence of the original purchase is required for warranty service

Please refer to our Uniden website for any details or warranty durations offered in addition to those contained below.

Warrantor:
The warrantor is either Uniden Australia Pty Limited ABN 58 001 865 498 ("Uniden Aust") or Uniden New Zealand Limited ("Uniden NZ") as the case may be.

Terms of Warranty: Uniden Aust/NZ warrants to the original retail purchaser only that the BW2101 ("the Product"), will be free from defects in materials and craftsmanship for the duration of the warranty period, subject to the limitations and exclusions set out below.

Warranty period: This warranty to the original retail purchaser is only valid in the original country of purchase for a Product first purchased either in Australia or New Zealand and will expire one (1) year from the date of the original retail sale. If a warranty claim is made, this warranty will not apply if the Product is found by Uniden to be:

A) Damaged or not maintained in a reasonable manner or as recommended in the relevant Uniden Owner's Manual;
B) Modified, altered or used as part of any conversion, kits, subassemblies or any configurations not sold by Uniden Aust or Uniden NZ;
C) Improperly installed contrary to instructions contained in the relevant Owner's Manual
D) Repaired by someone other than an authorized Uniden Repair Agent in relation to a defect or malfunction covered by this warranty; or
E) Used in conjunction with any equipment, parts or a system not manufactured by Uniden.

Parts Covered: This warranty covers the Product and included accessories.

User-generated Data: This warranty does not cover any claimed loss of or damage to user-generated data (including but without limitation phone numbers, addresses and images) that may be stored on your Product.

Statement of Remedy: If the Product is found not to conform to this warranty as stated above, the Warrantor, at its discretion, will either repair the defect or replace the Product without any charge for parts or service.

This warranty does not include any reimbursement or payment of any consequential damages claimed to arise from a Product's failure to comply with the warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is in addition to and sits alongside your rights under either the COMPETITION AND CONSUMER ACT 2010 (Australia) or the CONSUMER GUARANTEES ACT (New Zealand) as the case may be, none of which can be excluded.

Procedure for obtaining warranty service: Depending on the country in which the Product was first purchased, if you believe that your Product does not conform with this warranty, you should deliver the Product, together with satisfactory evidence of your original purchase (such as a legible copy of the sales docket) to Uniden at the addresses shown below. You should contact Uniden regarding any compensation that may be payable for your expenses incurred in making a warranty claim. Prior to delivery, we recommend that you make a backup copy of any phone numbers, images or other data stored on your Product, in case it is lost or damaged during warranty service.

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